

Title (en)

Timing setting device.

Title (de)

Vorrichtung zum Verstellen der Steuerzeiten.

Title (fr)

Dispositif de calage de distribution.

Publication

**EP 0438720 B1 19940413 (DE)**

Application

**EP 90124319 A 19901215**

Priority

DE 3942052 A 19891220

Abstract (en)

[origin: EP0438720A1] To obtain a structurally simple and compact construction, a device for setting the timing in a timing mechanism of an internal combustion engine, having a gear wheel (12), which is driven by the crankshaft and is arranged on a camshaft (10) for the actuation of the intake and exhaust valves, the camshaft being adjustable over a limited angle of rotation relative to the gear wheel by means of an actuating element, has as the actuating element a switchable freewheel (54) which is arranged kinematically between the gear wheel and the camshaft and, on the basis of the pulsating torques of the camshaft, makes possible an adjustment within an angle of rotation defined by stops (22). <IMAGE>

IPC 1-7

**F01L 1/34**

IPC 8 full level

**F01L 1/34** (2006.01); **F01L 1/344** (2006.01)

CPC (source: EP)

**F01L 1/34409** (2013.01)

Cited by

US6105544A; US5172660A; US5172662A; US5172658A; US5234088A; GB2248099A; GB2248099B; WO9804811A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

**DE 3942052 A1 19910627**; DE 59005363 D1 19940519; EP 0438720 A1 19910731; EP 0438720 B1 19940413; ES 2051447 T3 19940616

DOCDB simple family (application)

**DE 3942052 A 19891220**; DE 59005363 T 19901215; EP 90124319 A 19901215; ES 90124319 T 19901215